

217/782-2113

"REVISED"  
TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT  
and  
TITLE I PERMIT<sup>1</sup>

PERMITTEE

Natural Gas Pipeline Company of America  
Attn: Kristine M. Akridge, Environmental Coordinator  
370 Van Gordon Street  
Post Office Box 281304  
Lakewood, Colorado 80228-8304

<u>Application No.:</u> 95120215	<u>I.D. No.:</u> 091811AAB
<u>Applicant's Designation:</u>	<u>Date Received:</u> December 8, 1995
<u>Operation of:</u> Natural Gas Compressor Station 201	
<u>Date Issued:</u> May 24, 2000	<u>Expiration Date:</u> May 24, 2005
<u>Source Location:</u> Herscher, Kankakee County	
<u>Responsible Official:</u> James Pitts, Operations Director-North Region	

This permit is hereby granted to the above-designated Permittee to OPERATE a natural gas compressor station, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

Revision Date Received: November 4, 2002  
Revision Date Issued: TO BE DETERMINED  
Purpose of Revision: Minor Modification

This minor modification incorporates the construction and/or modification permitted in construction permit No 01080018. Because the changes in the permit were only minor, no formal public notice was issued.

This document only contains those portions of the entire CAAPP permit that have been revised as a result of this permitting action. If a conflict exists between this document and previous versions of the CAAPP permit, this document supercedes those terms and conditions of the permit for which the conflict exists. The previous permit issued May 24, 2000 is incorporated herein by reference.

Please attach a copy of this amendment and the following revised pages to the front of the most recently issued entire permit.

If you have any questions concerning this permit, please contact Mohamed Anane at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:MA:jar

cc: Illinois EPA, FOS Region 1

<sup>1</sup> This permit may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the CAA and regulations promulgated thereunder, including 40 CFR 52.21 - federal PSD and 35 IAC Part 203 - Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within this permit.

<sup>2</sup> Except as provided in Condition 8.7 of this permit.

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## 1.0 SOURCE IDENTIFICATION

### 1.1 Source

Natural Gas Pipeline Company of America  
5611 S 12000 W Road  
Herscher, Illinois 60941  
847/691-3777

Technical Contact: Kristine Akridge, Environmental Coordinator  
303/914-7819

Station Contact: Operations Manager

I.D. No.: 091811AAB

Standard Industrial Classification: 4922, Natural Gas  
Distribution

### 1.2 Owner/Parent Company

Natural Gas Pipeline Company of America  
370 Van Gordon Street  
Post Office Box 281304  
Lakewood, Colorado 80228-8304

### 1.3 Operator

Natural Gas Pipeline Company of America  
5611 S 12000 W Road  
Herscher, Illinois 60941

Technical Contact: Kristine M. Akridge, Environmental Coordinator  
303/914-7819

Operations Manager  
815/426-2151

### 1.4 General Source Description

Natural Gas Pipeline - Station #201 is located at Herscher, Kankakee County. The primary function of the compressor station is to transmit natural gas to and from high-pressure underground storage fields and between other compressor stations. Prior to pipeline transmission water is removed from the natural gas by a natural gas dehydration unit. Next, natural gas is injected into the storage fields during the low demand months and withdrawn from storage during the high demand months. The natural gas fired engines or turbines that provide the mechanical energy to power the compressors are typically the primary source of emissions at the Herscher Station #201.

## 2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

acfm	Actual cubic feet per minute
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CFR	Code of Federal Regulations
CO	Carbon Monoxide
°F	Degrees Fahrenheit
ft <sup>3</sup>	Cubic foot
g	Gram
HAP	Hazardous Air Pollutant
hp	Horsepower
hr	Hour
I.D. No.	Identification Number of Source, assigned by Illinois EPA
IAC	Illinois Administrative Code
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
°K	Degrees Kelvin
kg	Kilograms
km	Kilometers
kW	Kilowatts
lb	Pound
m	Meter
mmBtu	Million British thermal units
mmscf	Million standard cubic feet
MW	Megawatts
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	Parts per million
PSD	Prevention of Significant Deterioration
psia	Pounds per square inch absolute
SIC	Standard Industrial Classification
SO <sub>2</sub>	Sulfur Dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds

VOL	Volatile Organic Liquid
VOM	Volatile Organic Material
yr	Year

### 3.0 INSIGNIFICANT ACTIVITIES

#### 3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

- 3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a) (1) and 201.211, as follows:

Inhibitor Storage Tank 6,800 Gallon  
2-2.6 mmBtu/Hr Natural Gas Fired Reboilers  
Natural Gas Pneumatic Valve Operator  
Facility Roads-Dust

- 3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a) (2) or (a) (3), as follows:

None

- 3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a) (4) through (18), as follows:

Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B) Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a) (4)].

Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons per year, provided the storage tank is not used for the storage of gasoline or any material listed as a HAP pursuant to Section 112(b) of the CAA [35 IAC 201.210(a) (10)].

Storage tanks of any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils [35 IAC 201.210(a) (11)].

Gas turbines and stationary reciprocating internal combustion engines of less than 112 kW (150 horsepower) power output [35 IAC 201.210(a) (15)].

Loading and unloading systems for railcars, tank trucks, or watercraft that handle only the following liquid materials, provided an organic solvent has not been mixed with such materials: soaps, detergents, surfactants, lubricating oils, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup, aqueous salt solutions, or aqueous caustic solutions [35 IAC 201.210(a)(18)].

- 3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b).

### 3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.2.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182, 218.182, or 219.182.
- 3.2.2 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.
- 3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, 218.301, or 219.301, which requires that organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

### 3.3 Addition of Insignificant Activities

- 3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).
- 3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.



3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

#### 4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Plant Emission Unit	Emission Unit Description	Rated Capacity	Date of Construction	Emission Control
01	01-ENG	Natural Gas Fired Engine, Cooper GMWH8	3,080 HP	Before 1972	None
	02-ENG	Natural Gas Fired Engine, Cooper GMWH8	3,080 HP	Before 1972	None
	03-ENG	Natural Gas Fired Engine, Cooper GMWH8	3,080 HP	Before 1972	None
	04-ENG	Natural Gas Fired Engine, Cooper GMWH8	3,080 HP	Before 1972	None
	05-ENG	Natural Gas Fired Engine, Cooper GMWH8	3,080 HP	Before 1972	None
	06-ENG	Natural Gas Fired Engine, Cooper 10W330	5,625 HP	1972	None
	07-ENG	Natural Gas Fired Engine, IR SVG12	660 HP	Before 1972	None
	08-ENG	Natural Gas Fired Engine, IR SVG12	660 HP	Before 1972	None
	09-ENG	Natural Gas Fired Engine, IR SVG12	660 HP	Before 1972	None
	10-ENG	Natural Gas Fired Engine, IR SVG12	660 HP	Before 1972	None
	12-ENG	Natural Gas Fired Engine, Cooper GMVH0	2,500 HP	1972	None
	01-AUX	Natural Gas Fired Engine Cooper JS8	610 HP	Before 1972	None
	02-AUX	Natural Gas Fired Engine Cooper JS8	610 HP	Before 1972	None
	03-AUX	Natural Gas Fired Engine, Caterpillar	810 HP	1994	None
	Recovery-1	Natural Gas Fired Engine, Caterpillar G33061TAA	175 HP	1995	None
02	13-ENG	Natural Gas Fired turbine, GE	7,500 HP	Before 1972	None
	14-ENG	Natural Gas Fired turbine, GE	7,500 HP	Before 1972	None
	15-ENG	Natural Gas Fired turbine, GE	7,500 HP	Before 1972	None
03	01-BOL	Natural Gas Fired Boiler	16.5 mmBtu/Hr	Before 1972	None
	02-BOL	Natural Gas Fired Boiler	16.5 mmBtu/Hr	Before 1972	None
	04-BOL	Natural Gas Fired Boiler	12.5 mmBtu/Hr	1999	None
04	01-DHY	Glycol Dehydration Unit	----	Before 1982	Condenser and Flare
05	01-FLR	Backup Flare	----	Before 1982	Gas Flare

Emission Unit	Plant Emission Unit	Emission Unit Description	Rated Capacity	Date of Construction	Emission Control
06	GASTNK	Gasoline Storage Tank	1,000 Gallon	----	Submerged Loading Pipe
	M2 and M4	Methanol storage Tanks	20,000 Gallon	----	Submerged Loading Pipe

## 5.0 OVERALL SOURCE CONDITIONS

### 5.1 Source Description

This permit is issued based on the source requiring a CAAPP permit as a major source of NO<sub>x</sub>, VOM, CO and HAPs emissions.

### 5.2 Applicable Regulations

5.2.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions) of this permit.

5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:

- a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
- b. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.

5.2.3 The Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

#### 5.2.4 Risk Management Plan

Should this stationary source, as defined in 40 CFR Section 68.3, become subject to the Accidental Release Prevention regulations in 40 CFR Part 68, then the owner or operator shall submit [40 CFR 68.215(a)(2)(i) and (ii)]:

- a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
- b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan (RMP), as part of the annual compliance certification required by 40 CFR Part 70 or 71.

- 5.2.5 a. Should this stationary source become subject to a regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by 40 CFR Part 70 or 71.
- b. No later than upon the submittal for renewal of this permit, the owner or operator shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate compliance with all applicable requirements of any potentially applicable regulation which was promulgated after the date issued of this permit.

#### 5.2.6 Episode Action Plan

- a. If the source is required to have an episode action plan pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.

- c. If a change occurs at the source which requires a revision of the plan (e.g., operational change, change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.
- d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:
  - i. Illinois EPA, Compliance Section; and
  - ii. For sources located in Cook County and outside of the city of Chicago: Cook County Department of Environmental Control; or
  - iii. For sources located within the city of Chicago: Chicago Department of Environmental Control.

### 5.3 Non-Applicability of Regulations of Concern

None

### 5.4 Source-Wide Operational and Production Limits and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide operational and production limitations and/or work practice requirements:

None

### 5.5 Source-Wide Emission Limitations

#### 5.5.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. These limitations (Condition 5.5.1) are set for the purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	200.53
Sulfur Dioxide (SO <sub>2</sub> )	1.44
Particulate Matter (PM)	22.24
Nitrogen Oxides (NO <sub>x</sub> )	4,617.97
HAP, not included in VOM or PM	---
Total	4,842.2

5.5.2 Emissions of Hazardous Air Pollutant

Source-wide emission limitations for HAPs as listed in Section 112(b) of the CAA are not set. This source is considered to be a major source of HAPs.

5.5.3 Other Source-Wide Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to either the federal rule for PSD, 40 CFR 52.21, Illinois EPA rules Major Stationary Sources Construction and Modification, 35 IAC Part 203, or Section 502(b)(10) of the CAA. However, there may be unit specific emission limitations set forth in Section 7 of this permit pursuant to these rules.

5.6 General Recordkeeping Requirements

5.6.1 Emission Records

The Permittee shall maintain records of the following items for the source to demonstrate compliance with Condition 5.5.1 pursuant to Section 39.5(7)(b) of the Act:

Total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions) of this permit.

5.6.2 Records for VOM and HAPs

N/A

5.6.3 Records for Operating Scenarios

N/A

5.6.4 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.

- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

## 5.7 General Reporting Requirements

### 5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance with the permit requirements as follows pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

### 5.7.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year.

## 5.8 General Operational Flexibility/Anticipated Operating Scenarios

N/A

## 5.9 General Compliance Procedures

### 5.9.1 General Procedures for Calculating Permitted Emissions

Compliance with the source-wide emission limits specified in Condition 5.5 shall be based on the recordkeeping and reporting requirements of Conditions 5.6 and 5.7, and Compliance Procedures in Section 7 (Unit Specific Conditions) of this permit.



6.0 NOT APPLICABLE TO THIS PERMIT

## 7.0 UNIT SPECIFIC CONDITIONS

### 7.1 Unit 01: Natural Gas Fired Engines

#### 7.1.1 Description

These engines are used for natural gas compression and powering station generators. Each engine burns natural gas as a fuel.

#### 7.1.2 List of Emission Units and Pollution Control Equipment

Plant Emission Unit	Natural Gas Fired Engine Description	Rated Horse Power	Date of Construction
01-ENG	Cooper GMWH8	3,080	Before 1972
02-ENG	Cooper GMWH8	3,080	Before 1972
03-ENG	Cooper GMWH8	3,080	Before 1972
04-ENG	Cooper GMWH8	3,080	Before 1972
05-ENG	Cooper GMWH8	3,080	Before 1972
06-ENG	Cooper 10W330	5,625	Before 1972
07-ENG	IR SVG12	660	Before 1972
08-ENG	IR SVG12	660	Before 1972
09-ENG	IR SVG12	660	Before 1972
10-ENG	IR SVG12	660	Before 1972
12-ENG	Cooper GMVH0	2,500	Before 1972
01-AUX	Cooper JS8	610	Before 1972
02-AUX	Cooper JS8	610	Before 1972
03-AUX	Caterpillar 3512	810	1994
Recovery-1	Caterpillar G33061TAA	175	1995

#### 7.1.3 Applicability Provisions and Applicable Regulations

- a. The "affected engine" for the purpose of these unit-specific conditions is an emission unit described in conditions 7.1.1 and 7.1.2.
- b. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 ppm [35 IAC 214.301].
- c. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 215.302, 215.303, or 215.304 and the following exemption: If no odor nuisance exists the limitation of 35 IAC 215 Subpart G shall only apply to photochemically reactive material [35 IAC 215.301].
- d. Each affected engine is subject to the emission limits identified in Condition 5.2.2.

#### 7.1.4 Non-Applicability of Regulations of Concern

- a. The affected engine is not subject to the requirements of 35 IAC 212.321 or 212.322 because due to the unique nature of these units, a process weight rate can not be set so that such rules can not reasonably be applied.
- b. The affected engine is not subject to PSD, 40 CFR 52.21 for NO<sub>x</sub> emissions because affected engine obtained a construction permit prior to March 1, 1978 and commenced construction prior to March 19, 1979.
- c. The affected engine is not subject to 35 IAC 216.121, emissions of carbon monoxide from fuel combustion emission units, because the affected engine is not by definition a fuel combustion emission unit.

#### 7.1.5 Operational and Production Limits and Work Practices

- a. Natural Gas shall be the only fuel fired in the affected engine.

- b. Startup Provisions

The Permittee is authorized to operate an affected engine in violation of the applicable limit of 35 IAC 212.123 during startup pursuant to 35 IAC 201.262, as the Permittee has affirmatively demonstrated that all reasonable efforts will be made to minimize startup emissions, duration of individual starts, and frequency of startups. This authorization is subject to the following:

This authorization only extends for a period of up to two-hours following initial firing of fuel during each start-up event.

#### 7.1.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected engines are subject to the following:

None

Emission limits for PM, VOM, NO<sub>x</sub> and CO are not set for the affected engines 03-AUX and Recovery-1, as potential to emit in the absence of permit limit is less than the significant and major source thresholds for these pollutants pursuant to Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and 40 CFR 52.21, Prevention of Significant Deterioration (PSD).

7.1.7 Testing Requirements

None

7.1.8 Monitoring Requirements

None

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected engine to demonstrate compliance with Conditions of Sections 5.5 and 7.1 pursuant to Section 39.5(7)(b) of the Act:

- a. Hours of operation of the affected engine (hrs/yr).

7.1.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of an affected engine with the permit requirements as follows pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- a. Emissions of SO<sub>2</sub> and VOM from an affected engine in excess of the limits specified in Condition 7.1.3 within 30 days of such an occurrence.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee shall only repair or replace equipment specified in Conditions 7.1 with equipment of equal or lesser maximum heat input capacity having equal or lesser emission rates. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.142.

7.1.12 Compliance Procedures

- a. Compliance provisions addressing Condition 7.1.3(b) and (c) are not set by this permit as compliance is assumed to be achieved by the normal work practices and maintenance activities inherent in operation of the affected gas engines.
- b. Compliance with the emission limits in Condition 5.5 from the affected engines shall be based on the recordkeeping requirements in Condition 7.1.9 and the emission factors and formulas listed below:

	Engines 01-ENG to 05-ENG		Engine 06-ENG		Engines 07-ENG to 10-ENG	
Pollutant	(lb/hr)	Basis	(lb/hr)	Basis	(lb/hr)	Basis
VOM <sub>x</sub>	3.3	2	5.3	2	1.1	2
SO <sub>2</sub>	0.02	3	0.033	3	0.004	3
PM	0.30	3	0.6	3	0.07	3
NO <sub>x</sub>	180	1	137	2	41	1

	Engine 12-ENG		Engines 01-AUX to 02-AUX		Engines 03-AUX	
Pollutant	(lb/hr)	Basis	(lb/hr)	Basis	(lb/hr)	Basis
VOM <sub>x</sub>	2.4	2	1	2	2	4
SO <sub>2</sub>	0.01	3	0.004	3	0.005	3
PM	0.25	3	0.055	3	0.08	3
NO <sub>x</sub>	72	1	16	2	6.4	4

	Engine Recovery-1	
Pollutant	(lb/hr)	Basis
VOM <sub>x</sub>	0.1 <sup>a</sup>	4
SO <sub>2</sub>	0.001	3
PM	0.02	3
NO <sub>x</sub>	8 <sup>a</sup>	4

Factor Basis:

- <sup>1</sup> Stack test data - Pound per hour (lb/hr) factors were calculated using maximum consumption conditions.
- <sup>2</sup> AP-42 (5th Edition), Chapter 3, Section 2, Table 3.2-1 10/96 - Emission factor in units of lb/hp-hr were used in combination with maximum operating conditions to establish the lb/hr emission rate.
- <sup>3</sup> USEPA Fire Database Version 6.0 - Pound per hour factors were calculated using the maximum gas consumption and maximum horsepower ratings for the engines.
- <sup>4</sup> Manufacturer's data
- <sup>a</sup> Pound per hour number calculated based on manufacturer data at 80% Load and a restricted horsepower of 175 break horsepower.

Gas Engine Emissions (ton/year) = The Appropriate Emission Factor [lb/hr] x Actual Operating Hours [hours/year] x 0.0005 [ton/lb]

## 7.2 Unit 02: 3 - Natural Gas Fired Turbines

### 7.2.1 Description

The turbines are used to provide power to the compressor units at the source. The turbines do not utilize any control equipment. The turbines burn natural gas as the fuel.

### 7.2.2 List of Emission Units and Pollution Control Equipment

Plant Emission Unit	Natural Gas Fired Turbine	Date of Construction
13-ENG	GE 7500 HP	Before 1972
14-ENG	GE 7500 HP	Before 1972
15-ENG	GE 7500 HP	Before 1972

### 7.2.3 Applicability Provisions and Applicable Regulations

- a. The "affected turbine" for the purpose of these unit-specific conditions is an emission unit described in conditions 7.2.1 and 7.2.2.
- b. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 ppm [35 IAC 214.301].
- c. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 215.302, 215.303, or 215.304 and the following exemption: If no odor nuisance exists the limitation of 35 IAC 215 Subpart G shall only apply to photochemically reactive material [35 IAC 215.301].
- d. Each affected natural gas turbine is subject to the emission limits identified in Condition 5.2.2(b).

### 7.2.4 Non-Applicability of Regulations of Concern

- a. The affected natural gas turbine is not subject to NSPS for Stationary Gas Turbines, 40 CFR 60 Subparts A and GG, because the natural gas turbine commenced construction, modification, or reconstruction prior to October 3, 1977.
- b. The affected natural gas turbine is not subject to 35 IAC 216.121, emissions of carbon monoxide from fuel combustion emission units, because the affected natural gas turbine is not by definition a fuel combustion emission unit.

- c. The affected natural gas turbine is not subject to 35 IAC 217.121, emissions of nitrogen oxides from new fuel combustion emission sources, because the actual heat input of each unit is less than 73.2 MW (250 mmBtu/hr) and the affected natural gas turbine is not by definition a fuel combustion emission unit.
- d. The affected natural gas turbine not being subject to 35 IAC 212.321 because due to the unique nature of this process, such rules cannot reasonably be applied.

7.2.5 Operational and Production Limits and Work Practices

Natural gas shall be the only fuel fired in the affected natural gas turbine.

7.2.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected natural gas turbine is subject to the following:

None

7.2.7 Testing Requirements

None

7.2.8 Monitoring Requirements

None

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected natural gas turbine to demonstrate compliance with Conditions 5.5.1, 7.2.3, 7.2.5, and 7.2.6 pursuant to Section 39.5(7)(b) of the Act:

- a. Hours of operation of the affected turbine (hrs/yr).

7.2.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of an affected natural gas turbine with the permit requirements as follows pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

None

#### 7.2.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee shall only repair or replace equipment specified in Conditions 7.2 with equipment of equal or lesser maximum heat input capacity having equal or lesser emission rates. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.142.

#### 7.2.12 Compliance Procedures

- a. Compliance provisions addressing Condition 7.2.3(b), (c) and (d) are not set by this permit as compliance is assumed to be achieved by the normal work practices and maintenance activities inherent in operation of the affected gas turbine.
- b. Compliance with the emission limits in Condition 5.5 from the affected turbine shall be based on the recordkeeping requirements in Condition 7.2.9 and the emission factors and formulas listed below:

Pollutant	Engines 13-ENG to 15-ENG	
	(lb/hr)	Factor Basis
VOM <sub>x</sub>	0.17	1
SO <sub>2</sub>	0.04	2
PM	1.04	2
NO <sub>x</sub>	21.5	1

Factor Basis:

<sup>1</sup> AP-42 5th Edition), Chapter 3, Section 2, Table 3.2-1 10/96 - Natural gas fired turbines, lb/hr emission factor determine using maximum operating conditions.

<sup>2</sup> USEPA Fire Database Version 6.0 - Natural gas fired turbines, lb/hr emission factor determine using maximum operating conditions.

Gas Turbine Emissions (ton/year) = The Appropriate Emission Factor [lb/hr] x Actual operating Hours [hours/year] x 0.0005 [ton/lb]



### 7.3 Unit 03: Gas Fired Boilers

#### 7.3.1 Description

The boilers are used to produce steam for heating at the source. The boiler combust natural gas to produce steam for heating.

#### 7.3.2 List of emission equipment and pollution control equipment

Boiler	Description
01-BOL	16.5 mmBtu/Hr Gas Fired Boiler
02-BOL	16.5 mmBtu/Hr Gas Fired Boiler
04-BOL	12.5 mmBtu/Hr Gas Fired Boiler

#### 7.3.3 Applicable Regulations

- a. The "affected boiler" for the purpose of these unit specific conditions, is the emission unit described in Conditions 7.3.1 and 7.3.2.
- b. The affected boiler 04-BOL for the purpose of these unit specific conditions is a steam generating unit that is fired with natural gas, with a maximum heat input capacity of 100 mmBtu/hr or less, but greater than or equal to 10 mmBtu/hr, and constructed after June 9, 1989. As a consequence, the affected boiler 04-BOL is subject to the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60 Subpart Dc.
- c. The emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission unit with actual heat input greater than 2.9 MW (10 mmBtu/hr) shall not exceed 200 ppm, corrected to 50 percent excess air [35 IAC 216.121].

#### 7.3.4 Non-Applicability of Regulations of Concern

- a. The New Source Performance Standard for Small - Industrial - Commercial - Institutional Steam Generating Units, 40 CFR 60, Subpart Dc, applies to units constructed, reconstructed, or modified after June 9, 1989. Boiler (01-BOL and 02-BOL) were constructed prior to June 9, 1989, therefore, these rules do not apply.
- b. Pursuant to 35 IAC 218.303, fuel combustion emission units are not subject to 35 IAC 218.301, "Use of Organic Material".

#### 7.3.5 Operational and Production Limits and Work Practices

None

7.3.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide limitations in Condition 5.5, the boiler is subject to the following:

Emission limits for PM, VOM, NO<sub>x</sub> and CO are not set for the affected boiler 04-BOL, as potential to emit in the absence of permit limit is less than the significant and major source thresholds for these pollutants pursuant to Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification and 40 CFR 52.21, Prevention of Significant Deterioration (PSD).

7.3.7 Testing Requirements

None

7.3.8 Monitoring Requirements

None

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items which allow to demonstrate compliance with Condition 5.5.1 and 7.3.5 pursuant to Section 39.5 (7) (b) of the Act:

- a. Hours of operation of the affected boiler (hrs/yr).

7.3.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance with applicable requirements within 30 days pursuant to Section 39.5 (7) (f) (ii) of the Act.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.3.12 Compliance Procedures

- a. Compliance provisions addressing Condition 7.3.3(b) are not set by this permit as compliance is assumed to be achieved by the normal work practices and maintenance activities inherent in operation of the affected boiler.
- b. Compliance with the emission limits in Conditions 5.5.1 shall be based on the recordkeeping requirements in Condition 7.3.9 and the emission factors and formulas listed below:

- i. Emission factors for the affected boiler when fired by natural gas:

<u>Boiler</u>	Emissions (lbs/hr)		
	<u>NO<sub>x</sub></u>	<u>PM</u>	<u>VOM</u>
01-BOL	1.6	0.12	0.1
02-BOL	1.6	0.12	0.1
04-BOL	1.2	0.1	0.1

The emission factor for uncontrolled natural gas combustion in small industrial boilers (10 mmBtu/hr to 100 mmBtu/hr), Tables 1.4.1, and 1.4.2, AP-42 Fifth Edition, Volume 1, Supplement D, March, 1998. lb/hr rate is calculated from maximum operating conditions.

- ii. Boiler Emissions (ton/year) = The Appropriate Emission Factor (lb/hr) x Actual Hours of Operation (hours/year) x 0.0005 [ton/lb]

7.4 Unit 04: Glycol Dehydration Unit (01-DHY) Controlled by a Condenser (01-CND) and a Flare (02-FLR)

7.4.1 Description

The glycol dehydration unit is associated with the underground natural gas storage fields at the station. This is used to remove water from natural gas prior to returning to the pipeline for shipment. The water in the natural gas is removed from the natural gas using a glycol solution. The glycol solution is continually recycled, using a reboiler to heat the glycol to remove the water. Once the water is removed from the glycol it is stored in the new storage tank. As part of this process, trace levels of organic compounds are also removed from the natural gas with the water. When the glycol solution is heated, the organic compounds are volatilized and emitted at the dehydration unit still column. The emission of dehydration unit still column is controlled by the flare.

7.4.2 List of Emission Units and Pollution Control Equipment

Emission Unit	Process Description	Emission Control Equipment
01-DHY	Glycol Dehydration Unit	Condenser (02-CND) and Flare (02-FLR)

7.4.3 Applicability Provisions and Applicable Regulations

- a. The "affected dehydration unit process vent" for the purpose of these unit-specific conditions, are the emission units described in Conditions 7.4.1 and 7.4.2.
- b. No person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission unit to exceed 2,000 ppm [35 IAC 214.301].
- c. The affected dehydration process is subject to National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 63 Subpart HHH: Natural Gas Transmission and Storage Facilities, because the affected dehydration process is located in an existing major source of hazardous air pollutant (HAP) that transmit and store natural gas. However, this permit is issued based on the affected dehydration unit being exempt from the control requirements of the NESHAP (40 CFR 63.1274(c)). Because it complies with the exemption threshold in 40 CFR 63.1274(d)(2). (See Condition 1.1.6(b)). The Permittee intends to comply with the exemption threshold in 40 CFR 63.1274(d)(2) with the dehydration unit process vent controlled by the flare. And this permit makes the operation of the glycol dehydration unit with the flare (control device) federally enforceable. (See Condition 7.4.5(b), 7.4.7, 7.4.8, 7.4.9(b) and 7.4.10).

7.4.4 Non-Applicability of Regulations of Concern

- a. The affected dehydration unit is not subject to 35 IAC 216.121, emissions of carbon monoxide from fuel combustion emission units, because the heat input of the heater is less than 10 million Btu/hr.
- b. The affected dehydration unit is not subject to 35 IAC 215.301 because the emissions are not photochemically reactive material as defined in 211.4690 and no odor nuisance exits.

7.4.5 Operational and Production Limits and Work Practices

- a. Natural gas or process waste gas shall be the only fuel fired in the heater (reboiler) in affected dehydration unit.
- b.
  - i. The flare in the affected dehydration process shall comply with provisions of the National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 63.11(b) Control Device Requirements, for unassisted flares.
  - ii. At all times, the Permittee shall to the extent practicable, maintain and operate the new flare, in a manner consistent with good air pollution control practice for minimizing emissions.

7.4.6 Emission Limitations

- a. Emissions from the flare shall not exceed the following limits. These limits are based on the maximum design capacity of the flare as indicated in the application, i.e., approximately 1.057 million Btu/hour, maximum hours of operation 6,570 hours/year and standard USEPA emission factors (AP-42 Table 13.5-1, January 1995).

CO		VOM	
<u>(Lb/Hr)</u>	<u>(Tons/Yr)</u>	<u>(Lb/Hr)</u>	<u>(Tons/Yr)</u>
0.30	1.28	0.32	1.42

- b. Emissions of benzene from the affected dehydration process shall not exceed 0.90 megagram (0.99 tons) per year pursuant to 40 CFR 63.1274(d)(2), as determined in accordance with the procedure in 40 CFR 63.1282(a)(2).

- c. This permit is issued based on negligible emission of criteria pollutants from the heater or reboiler in the affected dehydration process. For this purpose, negligible emissions shall not exceed nominal emission rate of 0.44 tons/year.

#### 7.4.7 Testing Requirements

Heat content or flow rate of the waste gas sent to the flare shall be promptly tested upon written request by the Illinois EPA using the applicable methods specified in 40 CFR 63.11(b).

#### 7.4.8 Monitoring Requirements

The Permittee shall monitor the presence of a flame in the flare as if the flare were subject to 40 CFR 63.11 and 63.1283(d)(3)(i)(c).

#### 7.4.9 Recordkeeping Requirements

- a. The Permittee shall keep the following design records:
  - i. Maximum design capacity of the flare in million Btu/hour heat input from both waste gas and pilot flame fuel.
  - ii. Maximum firing rate of the reboiler in the dehydration unit in million Btu/hr.
- b. The Permittee shall keep the following operating records for the unit:
  - i. Glycol circulation rate in the dehydration unit (gallons/minutes)
  - ii. Amount of natural gas processed by the glycol dehydration unit (million scf/yr)
- c. The Permittee shall maintain the records required for a flare by 40 CFR 63.1284(e), as if the flare were subject to 40 CFR 63, Subpart HHH.
- d. The Permittee shall keep records of the actual average benzene emission per year in accordance with 40 CFR 63.1284(d).
- e. All records required by this permit shall be retained for a period no less than five years and shall be available for inspection and copying by the Illinois EPA, as required by section 39.5(7) of the Environmental Protection Act.

#### 7.4.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of an affected dehydration unit with the permit requirements. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

#### 7.4.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

#### 7.4.12 Compliance Procedures

- a. Compliance with Condition 7.4.3(b) is demonstrated by proper operation of the affected dehydration unit.
- b. Compliance with the emission limits in Condition 1.1.6 shall be based on the recordkeeping requirements in Condition 7.4.9 and USEPA emission factors.

In particular, purposes of calculating VOM and benzene emissions from the affected dehydration unit process vent, the current version of the \*GRI-GLYCalc estimated air emissions program is acceptable.

\* GRI-GLYCalc model was developed by Radian Corporation for the Gas Research Institute (GRI) specifically for estimating BETX/VOM emissions from triethylene glycol (TEG) and ethylene glycol dehydration units.

7.5 Unit 05: Backup Flare 01-FLR

7.5.1 Description

Natural gas production occurs incidentally when water is removed from the natural gas storage facility. Typically, this natural gas is reclaimed using the recovery compressor (RECOVERY-1) and reinjected in to the pipeline. When the recovery compressor is out of service, this natural gas stream is combusted in the backup flare device until the compressor is back on line.

7.5.2 List of Emission Units and Pollution Control Equipment

Condenser and Flare

7.5.3 Applicability Provisions and Applicable Regulations

- a. The "affected backup flare" for the purpose of these unit-specific conditions, is the emission unit described in Conditions 7.5.1 and 7.5.2.
- b. No person shall cause or allow the discharge of more than 3.6 kg/hr (8lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 215.302, 215.303, or 215.304 and the following exemption: If no odor nuisance exists the limitation of 35 IAC 215 Subpart G shall only apply to photochemically reactive material [35 IAC 215.301].
- c. The affected backup flare is subject to the emission limits identified in Condition 5.2.2.

7.5.4 Non-Applicability of Regulations of Concern

This permit is issued based on the affected backup flare not being subject to the requirements of 35 IAC 212.321 or 212.322 because due to the unique nature of the unit, a process weight rate weight can not be set so that such rules can not reasonably be applied.

7.5.5 Operational and Production Limits and Work Practices

The flare control shall be operated at all times when pumps are working and recovery compressor engine (Recovery-1) is not in service.

7.5.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide emission limitations in Condition 5.5, the affected backup flare is subject to the following:

None



7.5.7 Testing Requirements

Upon reasonable request by the Illinois EPA, pursuant to Section 39.5(7)(d) of the Act, measurements of organic material emissions shall be conducted in accordance with 40 CFR part 60, Appendix A, 40 CFR 61, Appendix B and 35 IAC 215.102, so as to demonstrate compliance with the emission limits in Condition 7.5.3(b).

Net Heating Value	See 40 CFR 60.18 (f) (3)
Maximum Velocity	See 40 CFR 60.18 (f) (4) and (5)

7.5.8 Monitoring Requirements

None

7.5.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for affected backup flare to demonstrate compliance with Conditions 5.5.1, 7.5.5, 7.5.6 and 7.5.7 pursuant to Section 39.5(7)(b) of the Act:

- a. Annual hours of operation of the flare (hours/year)
- b. Calculations which demonstrate that photochemically reactive material emissions do not exceed the limit in 7.5.3(b).

7.5.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of an affected backup flare with the permit requirements as follows pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

Photochemically reactive material emissions into the atmosphere from an affected dehydration unit in excess of the emission limit specified in Condition 7.5.3(b) within 30 days of such an occurrence.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.5.12 Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 7.5.9.

- a. Compliance with Condition 7.5.3(b) is demonstrated through the non-photochemical reactivity of organic material emissions from the affected unit by the use of organic material containing materials whose volumetric portion of organic material does not exceed the volumetric percentage thresholds that would render their emissions photochemically reactive, pursuant to 35 IAC 211.4690.
- b. Compliance with the emission limits in Condition 5.5 from the affected unit shall be calculated based on the following emission factors multiplied by the annual hours of operation:

Backup Flare 01-FLR		
Pollutant	(lb/hr)	Basis
VOM <sub>x</sub>	17.2	Calculated Value
SO <sub>2</sub>	0.007	AIRS
PM	0.16	AIRS
NO <sub>x</sub>	1.58	AP42

AP-42 - 5th Edition, Table 1.4-1 For Small, Industrial Boiler-Uncontrolled Emissions

AIRS-Aerometric Information System. Facility Subsystem of the USEPA, Document Number: EPA 450/4-90-003, March 1990

## 7.6 Unit 06: Storage Tanks

### 7.6.1 Description

The source operates storage tanks for gasoline and methanol storage.

### 7.6.2 List of Emission Units and Pollution Control Equipment

Emission Unit Storage Tank	Description	Emission Control Equipment
GASTNK	1,000 Gallon Gasoline Storage Tank	Submerged Loading
M2 and M4	20,000 Gallon Methanol Storage Tanks	Submerged Loading

### 7.6.3 Applicability Provisions

- a. An "affected tank", for the purpose of these unit-specific conditions, is the emission unit described in Conditions 7.6.1 and 7.6.2.
- b. No person shall cause or allow the loading of any organic material in any stationary tank having a storage capacity of greater than 946 liter (250 gal), unless such tank is equipped with a permanent submerged loading pipe [35 IAC 215.122(b)]. Except as provided in the following exemptions: If the tank is a pressure tank then the limitations of 35 IAC 215.122(b) shall not apply [35 IAC 215.122(c)] or if no odor nuisance exists then the limitation of 35 IAC 215.122(b) shall only apply when the tank is used to store a volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F [35 IAC 215.122(d)].
- c. No person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary tank at gasoline dispensing operation, unless such tank is equipped with a submerged loading pipe [35 IAC 215.583(a)(1)].

### 7.6.4 Non-Applicability of Regulations of Concern

- a. The affected storage tank is not subject to the requirements of 35 IAC 215.121, because the tank is less than 40,000 gal.
- b. The affected storage tank is not subject to the requirements of 35 IAC 215.122(a), because the tank is less than 40,000 gal.

7.6.5 Operational and Production Limits and Work Practices

Each affected tank subject to the applicable provisions of Condition 7.6.3© shall be equipped and operated with a submerged loading pipe, submerged fill, or an equivalent device approved by the Illinois EPA, pursuant to 35 IAC 215.122(b) and/or 215.583(a). (The Illinois EPA has not approved use of other equivalent equipment in lieu of a submerged loading pipe or submerged loading fill.)

7.6.6 Emission Limitations

In addition to Condition 5.2.2 and the source wide limitations in Condition 5.5, the affected tank is subject to the following:

N/A

7.6.7 Testing Requirements

None

7.6.8 Inspection and Monitoring Requirements

None

7.6.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected tank to demonstrate compliance with Condition 7.6.5 pursuant to Section 39.5(7) of the Act:

- a. Design information for the tank showing the presence of a submerged loading pipe or submerged fill.
- b. Maintenance and repair records for the tank, as related to the repair or replacement of the loading pipe, if applicable.
- c. If applicable, a written description of the practices used for submerged filling the tank(s).

7.6.10 Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance with the control and operating requirements as follows pursuant to Section 39.5(7)(f)(ii) of the Act:

- a. Any loading of gasoline or other VOL into an affected tank that was not in compliance with Condition 7.6.5, e.g., no "submerged loading pipe or submerged fill" within five days of becoming aware of the

noncompliance status. This notification shall include a description of the event, the cause for the noncompliance, actions taken to correct the noncompliance and the steps taken to avoid future noncompliance.

- b. Any storage of gasoline or other VOL in an affected tank that is out of compliance with the control requirements (Condition 7.6.5) due to damage, deterioration, or other condition of the loading pipe, within 30 days of becoming aware of the noncompliance status. This notification shall include a description of the event, the cause for the noncompliance, actions taken to correct the noncompliance, and the steps to be taken to avoid future noncompliance.

#### 7.6.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected tank without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. Changes to components related to either the "submerged loading pipe or submerged fill", including addition of new components and repair and replacement of components.
- b. Changes in the material stored in a tank provided the tank continues to comply with the Conditions of Section 7.6.5 of this permit.

#### 7.6.12 Compliance Procedures

Compliance with the emission limits in condition 5.5 and 7.6.6 shall be based on the recordkeeping requirements in Condition 7.6.9 and the emission factors and formulas listed below:

For the purpose of estimating VOM emissions from the affected storage tank, the current version of the TANKS program is acceptable.

## 8.0 GENERAL PERMIT CONDITIONS

### 8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise affected summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after December 27, 1999 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

### 8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

### 8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

### 8.4 Operational Flexibility/Anticipated Operating Scenarios

#### 8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

#### 8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;

- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements;
- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:
  - i. Describe the physical or operational change;
  - ii. Identify the schedule for implementing the physical or operational change;
  - iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
  - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
  - v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

#### 8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Condition 8.6.

## 8.6 Reporting Requirements

### 8.6.1 Monitoring Reports

If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [Section 39.5(7)(f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	September 1
July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

### 8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determination of emissions and operation which are intended to be made, including sampling and monitoring locations;
- e. The test method(s) which will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and



- g. Any proposed use of an alternative test method, with detailed justification.

#### 8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;
- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

#### 8.6.4 Reporting Addresses

- a. The following addresses should be utilized for the submittal of reports, notifications, and renewals:

- i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency  
Bureau of Air  
Compliance Section (MC 40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

- ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
9511 West Harrison  
Des Plaines, Illinois 60016

iii. Illinois EPA - Air Permit Section (MC 11)

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Permit Section  
P.O. Box 19506  
Springfield, Illinois 62794-9506

iv. USEPA Region 5 - Air Branch

USEPA (AR - 17J)  
Air & Radiation Division  
77 West Jackson Boulevard  
Chicago, Illinois 60604

- b. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

8.7 Obligation to Comply with Title I Requirements

Any term, condition, or requirement identified in this permit by T1, T1R, or T1N is established or revised pursuant to 35 IAC Part 203 or 40 CFR 52.21 ("Title I provisions") and incorporated into this permit pursuant to both Section 39.5 and Title I provisions. Notwithstanding the expiration date on the first page of this permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

## 9.0 STANDARD PERMIT CONDITIONS

### 9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule [Section 39.5(7)(j)(iv) of the Act].

9.1.2 In particular, this permit does not alter or affect the following:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

### 9.2 General Obligations of Permittee

#### 9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless such malfunction or breakdown is allowed by a permit condition [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated thereunder.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Section 39.5(7)(p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

- d. Sample or monitor any substances or parameters at any location:
  - i. At reasonable times, for the purposes of assuring permit compliance; or
  - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source.

#### 9.4 Obligation to Comply With Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

#### 9.5 Liability

##### 9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

##### 9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

##### 9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

##### 9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

#### 9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

### 9.6 Recordkeeping

#### 9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

#### 9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

#### 9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

### 9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Compliance Section no later than May 1 of the following year, as required by 35 IAC Part 254.

### 9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Section, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

#### 9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment to this permit.

#### 9.10 Defense to Enforcement Actions

##### 9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

##### 9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:
  - i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency. Normally, an act of God such as lightning or flood is considered an emergency;
  - ii. The permitted source was at the time being properly operated;
  - iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission

limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and

iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.

b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

#### 9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

#### 9.12 Reopening and Reissuing Permit for Cause

##### 9.12.1 Permit Actions

This permit may be modified, reopened, and reissued, for cause pursuant to Section 39.5(15) of the Act. The filing of a request by the Permittee for a permit modification, revocation, and reissuance, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7)(o)(iii) of the Act].

##### 9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program;



- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or inaccurate statement when establishing the emission standards or limitations, or other terms or conditions of this permit; and
- d. The Illinois EPA or USEPA determines that this permit must be revised to ensure compliance with the applicable requirements of the Act.

#### 9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under Section 39.5(15)(b) of the Act.

#### 9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

#### 9.13 Severability Clause

The provisions of this permit are severable, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. The rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7)(i) of the Act].

#### 9.14 Permit Expiration and Renewal

The right to operate terminates on the expiration date unless the Permittee has submitted a timely and complete renewal application. For a renewal to be timely it must be submitted no later than 9 and no sooner than 12 months prior to expiration. The equipment may continue to operate during the renewal period until final action is taken by the Illinois EPA, in accordance with the original permit conditions [Section 39.5(5)(1), (n), and (o) of the Act].

## 10.0 ATTACHMENTS

### 10.1 Attachment 1 - Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:

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Name:

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Official Title:

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Telephone No.:

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Date Signed:

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MA:jar